

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Standard Efficiency Three-Phase	Product code :	13505139	
Frame	: 56HC	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 15.1 kg		
Design	: A	Moment of inertia (J)	: 0.0044 kgm ²		
Output [HP]	2	1.5	1.5		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	6.22/3.11	5.46/2.73	5.70/3.02		
L. R. Amperes [A]	41.7/20.8	36.0/18.0	38.2/20.2		
LRC [A]	6.7x(Code K)	6.6x(Code J)	6.7x(Code L)		
No load current [A]	4.00/2.00	3.80/1.90	5.09/2.70		
Rated speed [RPM]	1740	1445	1455		
Slip [%]	3.33	3.67	3.00		
Rated torque [kgfm]	0.834	0.753	0.748		
Locked rotor torque [%]	240	229	280		
Breakdown torque [%]	250	280	340		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	105 K		
Locked rotor time	12s (cold) 7s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)		
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	75.5	75.3	67.8	
	75%	78.5	78.9	74.2	
	100%	78.5	79.4	76.9	
Power Factor	25%				
	50%	0.54	0.53	0.43	
	75%	0.68	0.67	0.56	
	100%	0.77	0.77	0.66	
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads			
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 74 kgf		
		Max. compression	: 89 kgf		
Lubrication interval	: -				
Lubricant amount	: -				
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 6.88A SF 1.00 SFA 6.88A					
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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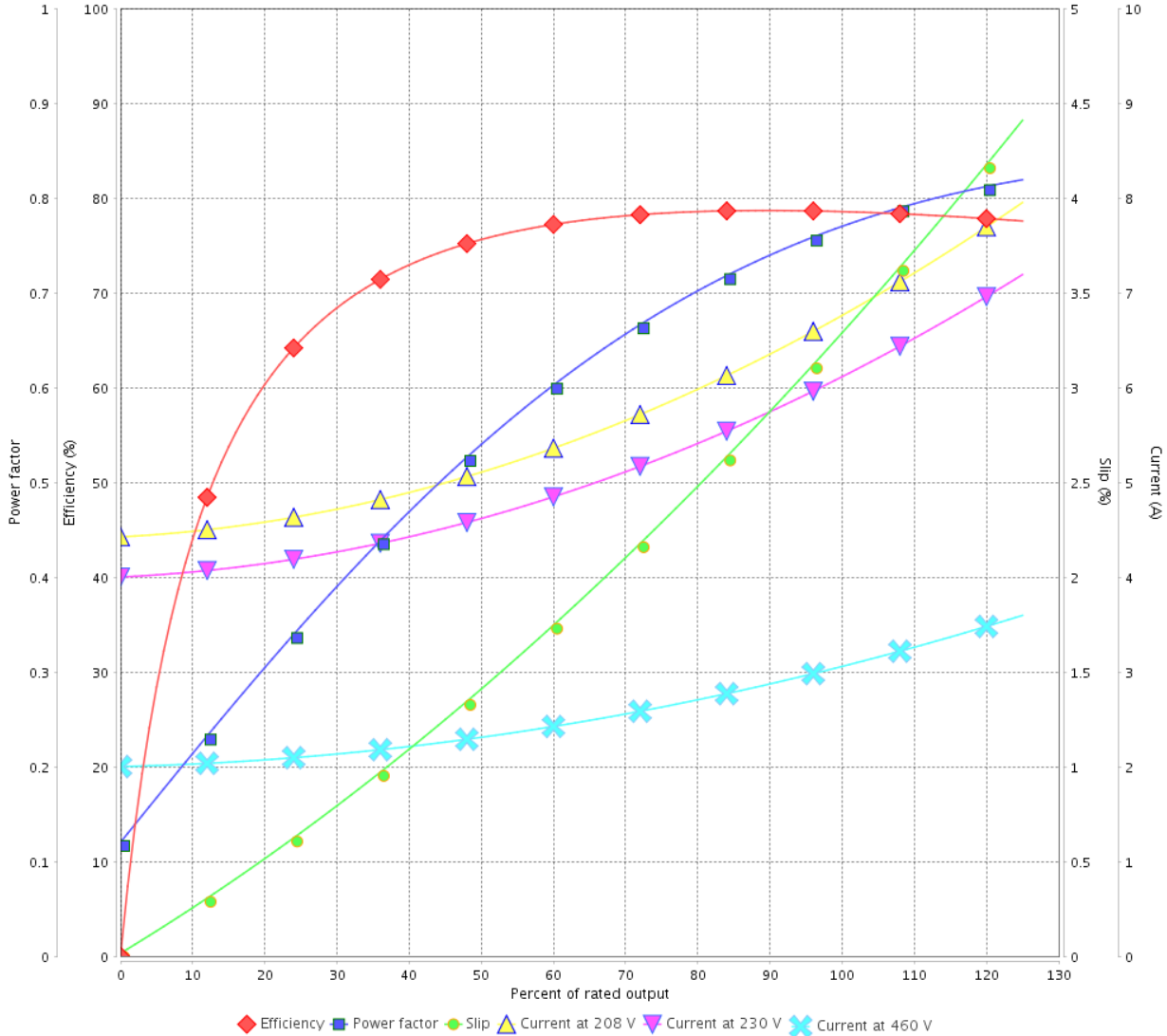
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13505139

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Performance : 230/460 V 60 Hz 4P

Rated current : 6.22/3.11 A
 LRC : 6.7
 Rated torque : 0.834 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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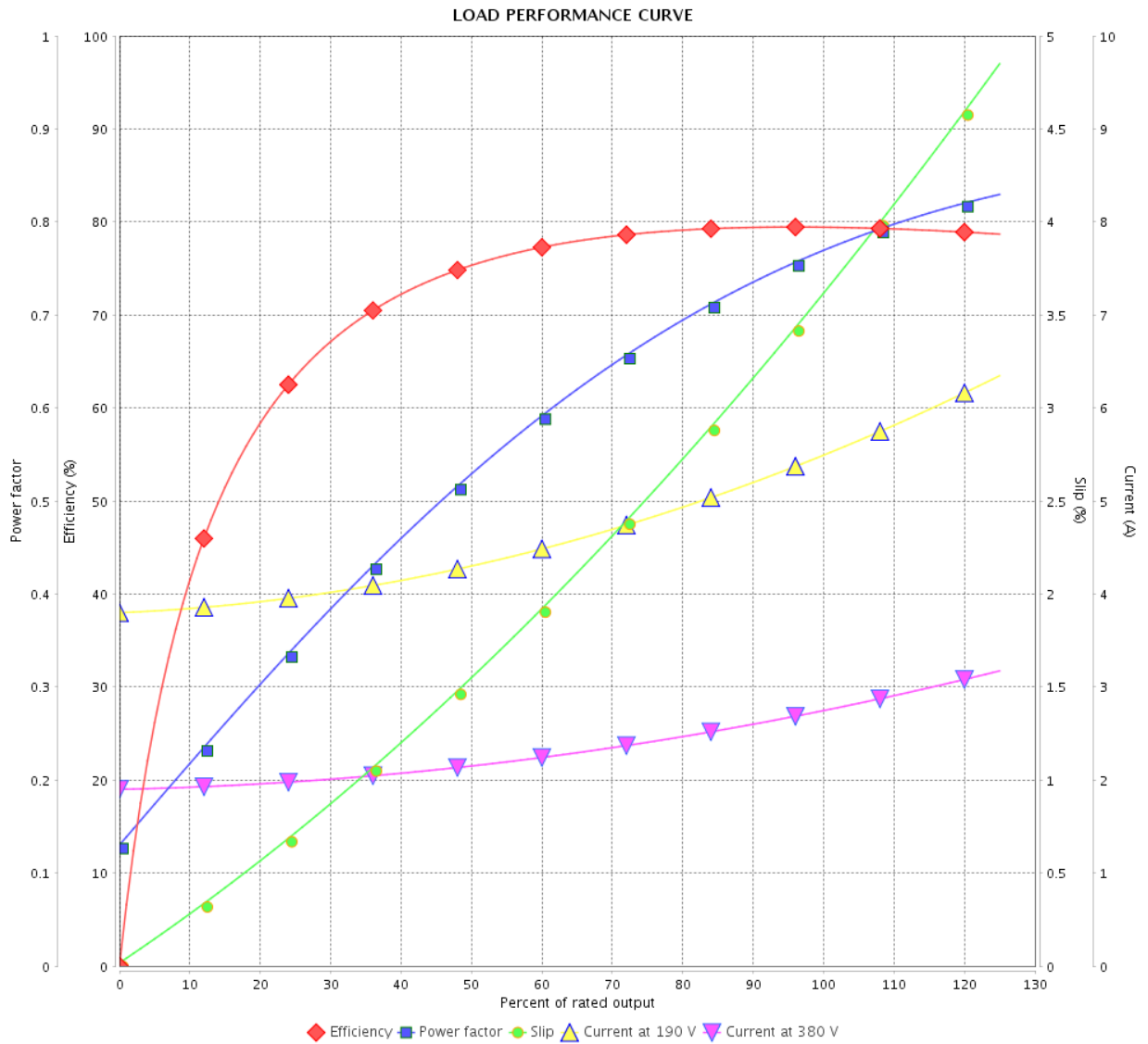
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 4P

Rated current : 5.46/2.73 A
 LRC : 6.6
 Rated torque : 0.753 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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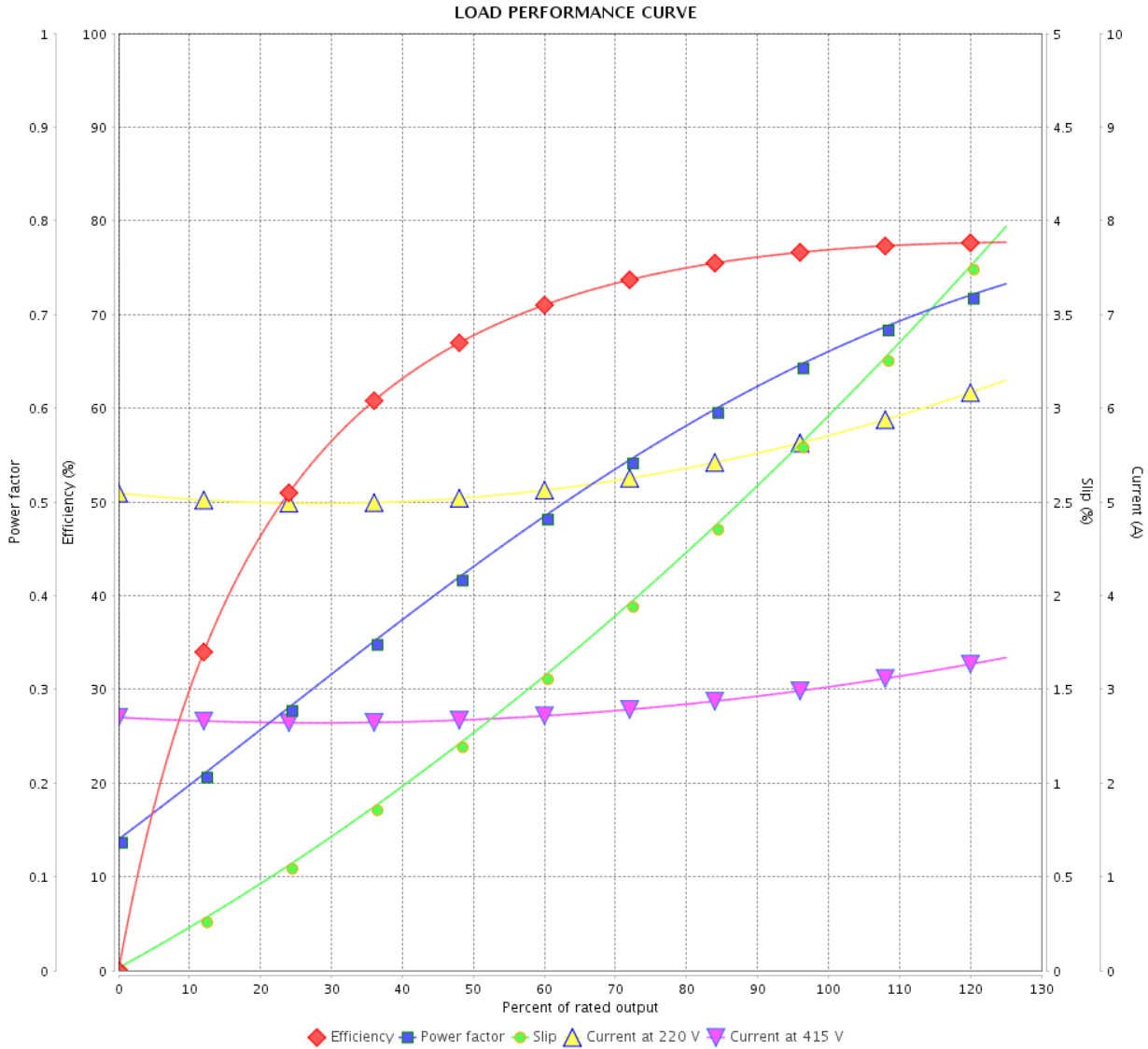
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13505139



Performance : 220/415 V 50 Hz 4P

Rated current : 5.70/3.02 A
 LRC : 6.7
 Rated torque : 0.748 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : A

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